

Cost Data	Practice Name:	Riparian Forest Buffer	391
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Typical Implementation Scenario

Plant trees and shrubs adjacent to waterbody or watercourse to improve water quality or improve other resource concerns. 5 rows of lg hardwoods with 12' spacing and 80% with tree protectors. 2 rows of med. tees @ 10' spacing. 2 row of shrubs @ 8' spacing. 104 ft wide (including 20' upgradient buffer) x 1210 ft long.

Geographic Area	Statewide	Practice/Activity Type:	Practice Activity
Unit for Cost Estimate	Ac.	Typical Units in Scenario	2.9
Practice Life (Years)	15	O & M Factor	5.00%
Discount Rate (%/Year	3.90%		

Name	Description	Unit	Quantity	Cost Each	Total
Materials					
hardwoods	5 rows*101 trees/row	each	505	1.20	\$606.00
tree protectors	80% of trees	each	404	\$3.00	\$1,212.00
med. Sized hardwoods	2 rows*121 trees/row	each	242	\$1.00	\$242.00
shrubs	2 rows*151 shrubs/row	each	302	\$0.90	\$271.80
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Total Materials					\$2,331.80

Equipment/Installation					
tillage	2 passes	ea	2.9	26.50	\$76.85
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Total Equipment Use, Services					\$76.85

Labor					
Tree Planting	hand & machine	ea	1049	\$0.50	\$524.50
Tree Protectors	hand installation	ea	404	\$1.00	\$404.00
					\$0.00
Total Labor					\$928.50

Mobilization/Demob.					
planter & tillage equipment		ea	1	\$135.00	\$135.00
Total Mobilization/Demob.					\$135.00

Operation & Maintenance (Annual)

Total Installation Cost times O&M Factor					\$173.61
Acquisition of Technical Knowledge					
none					\$0.00
Total Acquisition of Technical Knowledge					\$0.00

Foregone Income					
none					\$0.00
Total Foregone Income					\$0.00

Risk					
low					\$0.00
Total Risk					\$0.00

Customer's Administration Costs (Permits, Surveys, & Other)					
none					\$0.00
Total Administration & Permits					\$0.00
Total Cost Estimate (Total Implementation Cost = (Materials + Equipment/Installation + Labor + Mobilization + Acquisition of Technical					\$3,645.76
Cost Data Source Documentation is in separate files in the State Office files as per Title 200 Economics Handbook, Part 613, Subpart B, 613.13 (C) (3)					

This conservation practice supports/facilitates or is planned with the following conservation practices. Please refer to the FOTG and National Planning Procedures Handbook for guidance on Conservation Planning

Channel Stabilization	Early Successional Habitat Development/Management	Riparian Hervaceous Cover
Clearing and Snagging	Fence	Upland Wildlife Habitat Management